

Title (en)

DOOR HANDLE SYSTEM FOR A VEHICLE DOOR

Title (de)

TÜRGRIFFSYSTEM FÜR EINE FAHRZEUGTÜR

Title (fr)

SYSTÈME DE POIGNÉE POUR PORTE DE VÉHICULE

Publication

**EP 3025001 B1 20181226 (DE)**

Application

**EP 14742224 A 20140724**

Priority

- DE 102013012489 A 20130726
- EP 2014065884 W 20140724

Abstract (en)

[origin: WO2015011218A1] A door handle system (2) according to the invention for a vehicle door (1) comprises a door handle (3) and at least one flap (12, 14, 50, 52, 54, 56) for reversibly closing a grip recess (6) set back to the rear of the door handle (3) in relation to the outer surface (5) of the vehicle door (1). The door handle system (2) further comprises an actuating device, by means of which the or each flap (12, 14, 50, 52, 54, 56) can be pivoted between a closed position (10) that covers the handle recess (6) and an open position (16) that opens the handle recess (6). The door handle system (2) also comprises a distance sensor, which is arranged at least partially on the flap (12, 14, 50, 52, 54, 56) or on at least one of the flaps (12, 14, 50, 52, 54, 56), and a control and evaluation unit. The latter is designed to use a first measurement signal, which is output by the distance sensor in the closed position (10), to deduce an approach of a vehicle user to the or each flap (12, 14, 50, 52, 54, 56), and on detection of the approach to activate the actuation device to move the or each flap (12, 14, 50, 52, 54, 56) into the open position (16). Furthermore, the control and evaluation unit is designed to use a second measurement signal, which is output by the distance sensor in the open position (16), to determine whether the door handle (3) is grasped by the vehicle user.

IPC 8 full level

**E05B 85/10** (2014.01); **E05B 81/76** (2014.01)

CPC (source: EP US)

**E05B 17/10** (2013.01 - US); **E05B 81/04** (2013.01 - US); **E05B 81/56** (2013.01 - US); **E05B 81/76** (2013.01 - EP US); **E05B 81/77** (2013.01 - EP US); **E05B 85/10** (2013.01 - US); **E05B 85/103** (2013.01 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**DE 102013012489 A1 20150129**; CN 105431605 A 20160323; CN 105431605 B 20180413; EP 3025001 A1 20160601; EP 3025001 B1 20181226; US 10604971 B2 20200331; US 2016138307 A1 20160519; US 2020080349 A1 20200312; WO 2015011218 A1 20150129

DOCDB simple family (application)

**DE 102013012489 A 20130726**; CN 201480042202 A 20140724; EP 14742224 A 20140724; EP 2014065884 W 20140724; US 201615006309 A 20160126; US 201916684074 A 20191114